



CALS TEST NETWORK

AFCTN Test Report 93-045

AFCTB-ID
92-090



Technical Publication Transfer

Using:



Northrop Corporation's Data



MIL-M-28001A (SGML)
MIL-R-28002A (Raster)
MIL-D-28003 (CGM)



Quick Short Test Report



18 December 1992



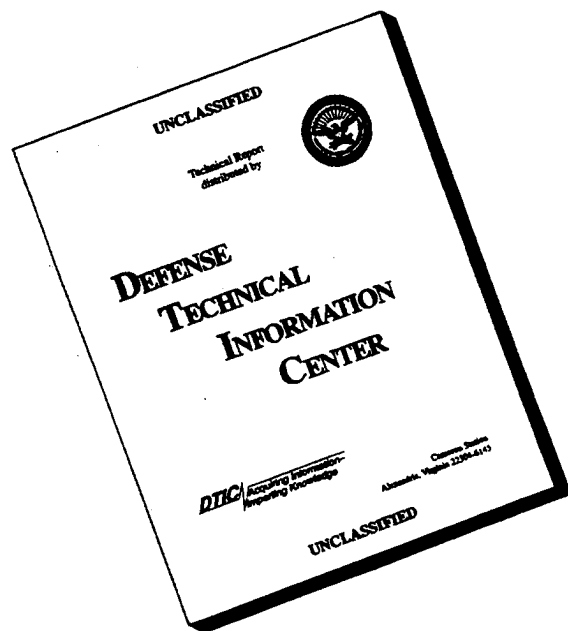
Prepared for
Electronic Systems Center

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Quick Short Test Report
18 December 1992

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1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-Cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTR) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Northrop Corporation's interpretation and use of the CALS standards in transferring technical publication data. Northrop used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the AFCTN technical staff on a 9-track magnetic tape.

2. Test Parameters

Test Plan: AFCTB 92-090

Date of
Evaluation: 18 December 1992

Evaluators: George Elwood
Air Force CALS Test Bed
DET 2 HQ ESC/ENCP
Suite 300
4027 Colonel Glenn Hwy
Dayton OH 45431-1672

Data Originator: John Kent
Northrop Corporation
B-2 Division
L591/GK
8900 E. Washington Blvd
Pico Rivera CA 90660

Data
Description: Technical Manual Test
2 Document Declaration files
2 Document Type Definitions (DTD)
2 Text files
2 Formal Output Specification Instances (FOSI)
2 Raster files
8 Computer Graphics Metafile (CGM) files

Data Source System:

Text/Standard Generalized Markup Language (SGML)

HARDWARE
Unknown
SOFTWARE
Unknown

Raster

HARDWARE
Unknown
SOFTWARE
Unknown

CGM

HARDWARE

Unknown

SOFTWARE

Unknown

Evaluation Tools Used:

MIL-STD-1840A (TAPE)

SUN 3/280

AFCTN Tapetool v1.2.8 UNIX
XSoft CAPS/CALS v40.4

MIL-M-28001 (SGML)

SUN SparcStation 2

XSoft CAPS v6.0x
ArborText ADEPT v4.2.1
SoftQuad Author/Editor v2.1

Cheetah Gold 486

Exoterica XGMLNormalizer v1.2e3.2

MIL-R-28002 (Raster)

SUN SparcStation 2

ArborText g42tiff
AFCTN validg4
AFCTN calstb.475
IGES Data Analysis (IDA) IGESView v3.0
Island Graphics IslandPaint v3.0

Cheetah

Inset Systems HiJaak v2.02
Corel Ventura Publisher

MIL-D-28003 (CGM)

SUN SparcStation 2

ArborText cgm2draw
Island Graphics IslandDraw v3.0

Cheetah Gold 486

Advance Technology Center
(ATC) MetaVIEW R v1.12
ATC MetaCheck R 2.05
Software Publishing Corporation
(SPC) Harvard Graphics v3.05
Inset Systems HiJaak v2.02
Corel Ventura Publisher

Standards

Tested:

MIL-STD-1840A
MIL-M-28001A
MIL-R-28002A
MIL-D-28003

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with the magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3.

The tape was enclosed in a barrier bag as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed the label indicating the recording density, as required by MIL-STD-1840A, para. 5.3.1. Enclosed in the box was a packing list showing all files recorded on the tape.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The tape was run through the AFCTB Tapetool v1.2.8 utility. Nine errors were encountered while evaluating the contents of the tape labels. Eight were "Invalid block size encountered" errors, and one relates to use of a space not permitted in the ANSI standard.

All eight CGM files were reported as having the wrong block size. MIL-D-28003, para. 3.1.4 requires the block size of CGM files be 800.

```
D001C004          CGM          F/00080 02000/000003  Extracted
*** ERROR (MIL-D-28003; 3.1.5) - Invalid Block Size:
    Header => 02000, Expected => 800
```

An error was reported in the use of reserved spaces. Al-

~~~~~

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---

that the Raster files were identified with "ras" instead of the correct "fax" per MIL-M-28001A.

```
<!NOTATION ras PUBLIC "-//USA-DOD//NOTATION CCITT Group 4 Facsimile//EN" >
```

```
<!ENTITY test1.ras SYSTEM NDATA ras>
```

```
<!ENTITY test2.ras SYSTEM NDATA ras>
```

The eight errors in both DTD were the same. The use of identifier that have not been defined was noted. The first error relates to "FSIDREF". The DTD comment indicates that this references the FOSI. This has not been defined in the DTD or ISO 8879.

```
465 branchstyleid FSIDREF #REQUIRED
```

```
500 doc EXIDREF #IMPLIED
```

The SGML does not meet the CALS MIL-M-28001A specification.

## 6. Raster Analysis

Both Raster files were checked using the AFCTN *validg4* utility. This program reported that the first file, D002R004 was a valid type I Raster image. The second file was reported as a type II Raster image which *validg4* can not parse. This type II file is the first one received in the AFCTB. Currently the AFCTB does not have any tools which will convert and display type II Raster files.

The type II Raster file was sent to the AFCTN Raster expert at Lawrence Livermore National Laboratory (LLNL) for evaluation. Here are his comments:

"Although I was able to successfully display the image, a pass through the QADTOOL parser indicated several errors:

1. Several basic parameters were specified as non\_basic, under non\_basic\_document\_characteristics in the document\_profile: a. nominal\_page\_size b. pel\_path d. line\_progression c. pel\_spacing

2. In the `layout_object`, the `page_position` attribute was not coded correctly.

3. In the `content_portion_attributes`, the `tiling_offset` values were not encoded correctly.

There may be some understandable confusion on the basic parameter issue since National Technical Information Service (NIST) is handing out examples with the basic values coded in the `non_basic_doc_characteristics`. The rationale for this was to demonstrate the structure of `non_basic` parameter encoding, but with a standard size test image, the actual data would be basic.

After the participant reprocessed the Type-II document, it should have been returned without the inappropriate `non_basic` parameters."

Both Raster images were checked using the AFCTN `CALSTB.475` utility. The first images could be displayed. The image was scanned in correctly without a noticeable angle. A few orphan pixels were noted on the image. The type II Raster image could not be read into `CALSTB.475`.

File D002R004 was converted using Rosetta Technologies' `Prepare` without a problem. The resulting file was viewed and printed using `Preview`. The type II file generated an error message and did not convert.

File D002R004 was converted using the ArborText's `g42tiff` utility and imported into Island Graphics' `IslandPaint` without a reported problem. The type II file generated an error message and could not be converted.

File D002R004 was imported directly into IDA's `IGESView` without a reported problem. The image displayed and printed correctly. `IGESView` could not handle the type II Raster file.

Both files were converted to an IMG format using Inset Systems' `HiJaak`. No errors were reported during this procedure. The resulting files were read into Corel's `Ventura Publisher`. The type II files, although converted, were not usable. See the Appendix for a hard copy.

File D002R004 was found to meet the CALS MIL-R-28002A specification. File D002R005 is a type II Raster file which can not be processed using current available tools in the AFCTB.

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## 7. CGM Analysis

The first document contained eight CGM files. All files were evaluated using ATC's *MetaCheck* with CALS options. This utility reported that all files with the exception of D001C010 met the CALS MIL-D-28003 specification. All files reported one basic error relating to background color definition.

Bulletin 20024: Element Class/ID: 5/34 Offset: 246 octets Element No. 20  
Warning; the definition of color index 0 differs from the explicitly defined Background Color.

Files D001C006 and D001C008 also reported errors relating to only one distinct vertex for a polyline. File D001C006 had many such reported errors.

Bulletin 20009: Element Class/ID: 4/1 Offset: 1962 octets Element No. 118  
Warning; POLYLINE with only one distinct vertex.

File D001C010 was reported as not meeting the CALS MIL-D-28003 specification. The reported error is an invalid edge type.

Error 6527: Element Class/ID: 5/27 Offset: 5172 octets Element No. 351 The Edge Type is invalid; it must have a value between 1 and 5.

All files were viewed using ATC's *MetaVIEW*. All files displayed on the screen. Files D001C004, and D001C008 thru D001C012 had reported errors during this process. Shown below is the error log from file D001C004. Because of the white background, white text on some files was not displayed.

System Error: Error -1018 in function 14.  
                  cl/id: 4/4, offs: 942, esqn: 71  
System Error: Error -1018 in function 14.  
                  cl/id: 4/4, offs: 1374, esqn: 103  
Error detected in file \9290\C004.CGM

---



All files were evaluated using the AFCTN *validcgm* utility. This tool reported that all files were in error.

All files were converted using ArborText's *cgm2draw* utility. No errors were reported during the conversion process. The resulting files were read into Island Graphics' *IslandDraw*. All files displayed on the screen. All files were displayed with a white background, which had to be changed. When an attempt to print the files was made, nothing generated. Because these files could not be used in the ArborText application, the document could not be printed. Three of the files were converted to another format and printed on another system. The results were not acceptable on two for the three files. Hard copies are included in the Appendix to this report.

All files were converted using the Island Graphics' *IslandDraw* program. No errors were noted during this process. All eight files displayed and printed. File D001C008 was not acceptable either on the screen nor printed, as only a very small part of the image was displayed. All files were initially displayed with a patterned background. When this was removed some of the text disappeared because of the white background and white letters. Hard copies are included in the Appendix to this report.

All files were imported into SPC's *Harvard Graphics v3.05*. All files, with the exception of D001C011, were converted with reported errors. The errors were line style errors and/or object not translated. None of the imported files were usable. Hard copies are included in the Appendix to this report.

An attempt was made to convert the CGM files to IMG format using Inset Systems' *HiJaak*. Each file generated an error message and none of the files would convert. File C006 and C008 hung up the system requiring a reboot.

An attempt was made to convert the files using Corel's *Ventura Publisher*. Files C005 thru C008 converted without a reported error. The remaining files contained an error message of "file not correct," and would not convert. While trying to move the four files into a document, file C008 cause *Ventura Publisher* to crash, dropping the system back to the prompt. File C005 and C006 were imported and printed. The results were not acceptable with nothing

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recognizable being displayed and printed. See the Appendix for the hard copy.

The CGM files do not meet the CALS MIL-D-28003 specification.

## 8. Conclusions and Recommendations

In summary, the physical structure of the tape from Northrop Corporation does not meet the CALS MIL-STD-1840A requirements. The incorrect blocking factor for the CGM files may cause problems with some systems.

The DTD provided on the tape had several errors. Some of the minor errors were corrected. The major errors relate to use of non defined tags. The SGML files do not meet the CALS MIL-M-28001A specification.

The Raster file meets the CALS MIL-R-28002A specification. The type II Raster file was not evaluated by the AFCTB.

The CGM files handled from good to poor on the various CGM tools available in the AFCTB. They do not meet the CALS MIL-D-28003 specification.

The tape does not meet the CALS MIL-STD-1840A requirements.

## 9. Appendix A - Tapetool Report Logs

### 9.1 Tape Catalog

Air Force CALS Test Network Catalog Evaluation - Version 1.2; Release Number 8

Standards referenced:

- MIL-STD-1840A (1987) - Automated Interchange of Technical Information
- MIL-R-28003 (1988) - Digital Representation For Communication Of  
Illustration Data; CGM Application Profile
- ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange
- ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Dec 17 16:17:34 1992

MIL-STD-1840A File Catalog

File Set Directory: /cals/tapetool8/Set111

Page: 1

| File Name                                                                                | File Type            | Record<br>Format/<br>Length | Block<br>Length/Total | Selected/<br>Extracted |
|------------------------------------------------------------------------------------------|----------------------|-----------------------------|-----------------------|------------------------|
| D001                                                                                     | Document Declaration | D/00260                     | 02048/000001          | Extracted              |
| D002                                                                                     | Document Declaration | D/00260                     | 02048/000001          | Extracted              |
| D001T001                                                                                 | Text                 | D/00260                     | 02048/000001          | Extracted              |
| D001G002                                                                                 | DTD                  | D/00260                     | 02048/000034          | Extracted              |
| D001H003                                                                                 | Output Specification | D/00260                     | 02048/000004          | Extracted              |
| D001C004                                                                                 | CGM                  | F/00080                     | 02000/000003          | Extracted              |
| *** ERROR (MIL-D-28003; 3.1.5) - Invalid Block Size:<br>Header => 02000, Expected => 800 |                      |                             |                       |                        |
| D001C005                                                                                 | CGM                  | F/00080                     | 02000/000001          | Extracted              |
| *** ERROR (MIL-D-28003; 3.1.5) - Invalid Block Size:<br>Header => 02000, Expected => 800 |                      |                             |                       |                        |
| <<<<< PART OF LOG REMOVED HERE >>>>>                                                     |                      |                             |                       |                        |
| D002T001                                                                                 | Text                 | D/00260                     | 02048/000001          | Extracted              |
| D002G002                                                                                 | DTD                  | D/00260                     | 02048/000034          | Extracted              |
| D002H003                                                                                 | Output Specification | D/00260                     | 02048/000004          | Extracted              |
| D002R004                                                                                 | Raster               | F/00128                     | 02048/000016          | Extracted              |
| D002R005                                                                                 | Raster               | F/00128                     | 02048/000008          | Extracted              |

Catalog Process terminated with 8 error(s), 0 warning(s), and 0 note(s).

---

## 9.2 Tape Evaluation Log

Air Force CALS Test Network Tape Evaluation - Version 1.2; Release Number 8  
Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Dec 17 16:17:17 1992

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1ITDS01 CONTROLLER

4

Label Identifier: VOL1  
Volume Identifier: ITDS01  
Volume Accessibility:  
Owner Identifier:  
Label Standard Version: 4

\*\*\* ERROR (ANSI X3.27; 8.3.1.1) - Columns 12-24 are reserved  
for future standardization and must be spaces.

HDR1D001 ITDS0100010001000100 92339 92339 000000 CONTROLLER

Label Identifier: HDR1  
File Identifier: D001  
File Set Identifier: ITDS01  
File Section Number: 0001  
File Sequence Number: 0001  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 92339  
Expiration Date: 92339  
File Accessibility:  
Block Count: 000000  
Implementation Identifier: CONTROLLER

HDR2D0204800260

00

Label Identifier: HDR2  
Recording Format: D  
Block Length: 02048

---

Record Length: 00260  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001                    ITDS0100010001000100 92339 92339 000001 CONTROLLER

Label Identifier: EOF1  
File Identifier: D001  
File Set Identifier: ITDS01  
File Section Number: 0001  
File Sequence Number: 0001  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 92339  
Expiration Date: 92339  
File Accessibility:  
Block Count: 000001  
Implementation Identifier: CONTROLLER

EOF2D0204800260

00

Label Identifier: EOF2  
Recording Format: D  
Block Length: 02048  
Record Length: 00260  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

<<<< PART OF LOG REMOVED HERE >>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

HDR1D002R005                ITDS0100010018000100 92339 92339 000000 CONTROLLER

Label Identifier: HDR1  
File Identifier: D002R005  
File Set Identifier: ITDS01  
File Section Number: 0001  
File Sequence Number: 0018  
Generation Number: 0001

---

Generation Version Number: 00  
Creation Date: 92339  
Expiration Date: 92339  
File Accessibility:  
Block Count: 000000  
Implementation Identifier: CONTROLLER

HDR2F0204800128

00

Label Identifier: HDR2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 8.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D002R005

ITDS0100010018000100 92339 92339 000008 CONTROLLER

Label Identifier: EOF1  
File Identifier: D002R005  
File Set Identifier: ITDS01  
File Section Number: 0001  
File Sequence Number: 0018  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 92339  
Expiration Date: 92339  
File Accessibility:  
Block Count: 000008  
Implementation Identifier: CONTROLLER

EOF2F0204800128

00

Label Identifier: EOF2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

\*\*\*\*\* Tape Mark \*\*\*\*\*

##### End of Volume ITDS01 #####

##### End Of Tape File Set #####

Deallocating /dev/rmt0...

Tape Import Process terminated with 1 error(s), 0 warning(s),  
and 0 note(s).



### 9.3 Tape File Set Validation Log

Air Force CALS Test Network File Set Evaluation - Version 1.2; Release Number 8  
Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information  
MIL-R-28002 (1989) - Raster Graphics Representation In Binary  
Format, Requirements For

Thu Dec 17 16:17:34 1992

MIL-STD-1840A File Set Evaluation Log

File Set: Set111

Found file: D001

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: John P. Kent, ITDS Chief Engineer, Northrop Corporation, B-2 Division, L591/GK

srcdocid: CALS\_CGM\_TEST

srcrelid: NONE

chglvl: ORIGINAL

dteis: 19921204

dstsys: Jeff Fisher, Integration Manager, USAF CALS Test Bed, HQ AFMC (I)/ENCT, Techne

dstdocid: CALS\_CGM\_TEST1

dstrelid: NONE

dtetn: 19921204

dlvacc: NONE

filcnt: T1, H1, G1, C8

ttlcls: UNCLASSIFIED

doccls: UNCLASSIFIED

doctyp: JOB GUIDE

docttl: graphics test

Found file: D001T001

Extracting Text Header Records...

Evaluating Text Header Records...

srcdocid: CALS\_CGM\_TEST

dstdocid: CALS\_CGM\_TEST1

txtfilid: W

doccls: UNCLASSIFIED

notes: NONE

Saving Text Header File: D001T001\_HDR

Saving Text Data File: D001T001\_TXT

Found file: D001G002  
Extracting DTD Header Records...  
Evaluating DTD Header Records...

srcdocid: CALS\_CGM\_TEST  
dstdocid: CALS\_CGM\_TEST1  
notes: NONE

Saving DTD Header File: D001G002\_HDR  
Saving DTD Data File: D001G002\_DTD

Found file: D001H003  
Extracting Output Specification Header Records...  
Evaluating Output Specification Header Records...

srcdocid: CALS\_CGM\_TEST  
dstdocid: CALS\_CGM\_TEST1  
notes: NONE

Saving Output Specification Header File: D001H003\_HDR  
Saving Output Specification Data File: D001H003\_OS

Found file: D001C004  
Extracting CGM Header Records...  
Evaluating CGM Header Records...

srcdocid: CALS\_CGM\_TEST  
dstdocid: CALS\_CGM\_TEST1  
txtfilid: W  
figid: NONE  
srcgph: allreal.cgm  
doccls: UNCLASSIFIED  
notes: NONE

Saving CGM Header File: D001C004\_HDR  
Saving CGM Data File: D001C004\_CGM

<<<< PART OF LOG REMOVED HERE >>>>

Found file: D001C011  
Extracting CGM Header Records...  
Evaluating CGM Header Records...

srcdocid: CALS\_CGM\_TEST  
dstdocid: CALS\_CGM\_TEST1  
txtfilid: W  
figid: NONE

---

srcgph: text.cgm  
doccls: UNCLASSIFIED  
notes: NONE

Saving CGM Header File: D001C011\_HDR  
Saving CGM Data File: D001C011\_CGM

Evaluating numbering scheme...  
No errors were encountered during numbering scheme evaluation.  
Numbering scheme evaluation complete.

Checking file count...  
No errors were encountered during file count verification.  
File Count verification complete.

No errors were encountered in Document D001.

Found file: D002  
Extracting Document Declaration Header Records...  
Evaluating Document Declaration Header Records...

srcsys: John P. Kent, ITDS Chief Engineer, Northrop Corporation, B-2 Division, L591/GK  
srcdocid: CALS\_RAS\_TEST  
srcrelid: NONE  
chglvl: ORIGINAL  
dteis: 19921204  
dstsys: Jeff Fisher, Integration Manager, USAF CALS Test Bed, HQ AFMC (I)/ENCT, Technne  
dstdocid: CALS\_RAS\_TEST1  
dstrelid: NONE  
dtetrm: 19921204  
dlvacc: NONE  
filcnt: T1, H1, G1, R2  
ttlcls: UNCLASSIFIED  
doccls: UNCLASSIFIED  
doctyp: JOB GUIDE  
docttl: graphics test

Found file: D002T001  
Extracting Text Header Records...  
Evaluating Text Header Records...

srcdocid: CALS\_RAS\_TEST  
dstdocid: CALS\_RAS\_TEST1  
txtfilid: W  
doccls: UNCLASSIFIED  
notes: NONE

Saving Text Header File: D002T001\_HDR

---

Saving Text Data File: D002T001\_TXT

Found file: D002G002  
Extracting DTD Header Records...  
Evaluating DTD Header Records...

srcdocid: CALS\_RAS\_TEST  
dstdocid: CALS\_RAS\_TEST1  
notes: NONE

Saving DTD Header File: D002G002\_HDR  
Saving DTD Data File: D002G002\_DTD

Found file: D002H003  
Extracting Output Specification Header Records...  
Evaluating Output Specification Header Records...

srcdocid: CALS\_RAS\_TEST  
dstdocid: CALS\_RAS\_TEST1  
notes: NONE

Saving Output Specification Header File: D002H003\_HDR  
Saving Output Specification Data File: D002H003\_OS

Found file: D002R004  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: CALS\_RAS\_TEST  
dstdocid: CALS\_RAS\_TEST1  
txtfilid: W  
figid: NONE  
srcgph: test1.ras  
doccls: UNCLASSIFIED  
rtype: 1  
rorient: 090,270  
rpelcnt: 001728,002200  
rdensty: 0200  
notes: NONE

Saving Raster Header File: D002R004\_HDR  
Saving Raster Data File: D002R004\_GR4

Found file: D002R005  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: CALS\_RAS\_TEST

---

dstdocid: CALS\_RAS\_TEST1  
txtfilid: W  
figid: NONE  
srcgph: test2.ras  
doccls: UNCLASSIFIED  
rtype: 2  
rorient: 000,270  
rpelcnt: 002560,003584  
rdensty: 0300  
notes: NONE

Saving Raster Header File: D002R005\_HDR  
Saving Raster Data File: D002R005\_GR4

Evaluating numbering scheme...  
No errors were encountered during numbering scheme evaluation.  
Numbering scheme evaluation complete.

Checking file count...  
No errors were encountered during file count verification.  
File Count verification complete.

No errors were encountered in Document D002.

No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

## 10. Appendix B - Detailed SGML Analysis

### 10.1 Exoterica Parser - D001G001

C:\XGML\XGMLNORM.EXE --  
Error on line 463 in file entities/north90a.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "BRANCHSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 498 in file entities/north90a.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "DOC".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 519 in file entities/north90a.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "VIEWSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1140 in file entities/north90a.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "EXTREFID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1153 in file entities/north90a.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "GRAPHSTYID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1369 in file entities/north90a.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "TABSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1390 in file entities/north90a.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "SUBSETSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1473 in file entities/north90a.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "SUBSETSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 82 in file north90a.sgm:  
An ENTITY declaration referred to an undeclared notation.  
For entity 'allreal.cgm', notation 'CGM'.

<<<< REMAINDER OF LOG REMOVED >>>>

### 10.1.1 Exotercia Parser Log - D002G001

C:\XGML\XGMLNORM.EXE --  
Error on line 457 in file entities/north90b.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "BRANCHSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 492 in file entities/north90b.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "DOC".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 513 in file entities/north90b.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "VIEWSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1134 in file entities/north90b.dtd:

Syntax error.  
Error in attribute definition.  
The last text seen was "EXTREFID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1147 in file entities/north90b.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "GRAPHSTYID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1363 in file entities/north90b.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "TABSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1384 in file entities/north90b.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "SUBSETSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 1467 in file entities/north90b.dtd:  
Syntax error.  
Error in attribute definition.  
The last text seen was "SUBSETSTYLEID".  
Expecting to see a declared value next.

C:\XGML\XGMLNORM.EXE --  
Error on line 72 in file north90b.sgm:  
An ENTITY declaration referred to an undeclared notation.  
For entity 'test2.ras', notation 'RAS'.

C:\XGML\XGMLNORM.EXE --  
Error on line 72 in file north90b.sgm:  
An ENTITY declaration referred to an undeclared notation.  
For entity 'test1.ras', notation 'RAS'.  
<!-- The document prolog is in error. -->



## 11. Appendix C - Detailed Raster Analysis

### 11.1 File D002R004

#### 11.1.1 Output g42tiff/IslandPaint

| U.S. ARMY MATERIEL COMMAND<br>U.S. ARMY MISSILE COMMAND<br>REDSTONE ARSENAL, ALABAMA |                            |                              |              | PARTS<br>LIST        |    | PL 10677267<br>CODE IDENTIFICATION NO.<br>18876 |                          |        |                  |
|--------------------------------------------------------------------------------------|----------------------------|------------------------------|--------------|----------------------|----|-------------------------------------------------|--------------------------|--------|------------------|
| TITLE OSCILLATOR, VOLTAGE CONTROLLED-COMO-A3A13                                      |                            | USAMICOM 63343<br>ECP        |              | DATE 16 NOV 70 REV - |    | SHEET 3 OF                                      |                          |        |                  |
| FIND NO.                                                                             | PART OR IDENTIFICATION NO. | DRAWING OR SPECIFICATION NO. | NOMENCLATURE | QUANTITY             | PL | MI                                              | EFFECTIVITY =<br>FROM TO | ZONE = | NOTES OR REMARKS |
|                                                                                      | 10181751-207               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-208               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-209               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-210               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-211               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-212               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-213               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-214               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-215               | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
| 2                                                                                    | 10181752-261               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 3                                                                                    | 10181752-357               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 4                                                                                    | 10181751-147               | 10181751                     | RESISTOR     | 2                    |    |                                                 |                          |        |                  |
| 5                                                                                    | 10180306-239               | 10180306                     | RESISTOR     | 2                    |    |                                                 |                          |        |                  |
| 6                                                                                    | 10181751-133               | 10181751                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 7                                                                                    | 10181751-166               | 10181751                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 8                                                                                    | 10180328-418               | 10180328                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 9                                                                                    | 10181752-283               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 10                                                                                   | 10181752-298               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 11                                                                                   | 10181752-306               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 12                                                                                   | 10181752-297               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 13                                                                                   | 10181752-289               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 14                                                                                   | 10181752-271               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 15                                                                                   | 10181752-310               | 10181752                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
| 16                                                                                   | 10181751-55                | 10181751                     | RESISTOR     | 1                    |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-1                 | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        | 1                |
|                                                                                      | 10181751-2                 | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-3                 | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-4                 | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-5                 | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |
|                                                                                      | 10181751-6                 | 10181751                     | RESISTOR     |                      |    |                                                 |                          |        |                  |

NSA FORM 1000, AUG. 1963

OPTIONAL

## 11.1.2 Output IGESView

|                                                                                      |                            |                              |              |                |       |                                                 |                          |       |            |                  |
|--------------------------------------------------------------------------------------|----------------------------|------------------------------|--------------|----------------|-------|-------------------------------------------------|--------------------------|-------|------------|------------------|
| U.S. ARMY MATERIEL COMMAND<br>U.S. ARMY MISSILE COMMAND<br>REDSTONE ARSENAL, ALABAMA |                            |                              |              | PARTS<br>LIST  |       | PL 10677287<br>CODE IDENTIFICATION NO.<br>18876 |                          |       |            |                  |
| TITLE OSCILLATOR, VOLTAGE CONTROLLED-COMO-A3A13                                      |                            |                              |              | USAMCOM<br>ECP | 63343 | DATE                                            | 16 NOV 70                | REV - | SHEET 3 of |                  |
| FIND NO.                                                                             | PART OR IDENTIFICATION NO. | DRAWING OR SPECIFICATION NO. | NOMENCLATURE | QUANTITY       | PL    | MI                                              | EFFECTIVITY -<br>FROM TO |       | ZONE       | NOTES OR REMARKS |
|                                                                                      | 10181751-207               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-208               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-209               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-210               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-211               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-212               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-213               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-214               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-215               | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
| 2                                                                                    | 10181752-261               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 3                                                                                    | 10181752-357               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 4                                                                                    | 10181751-147               | 10181751                     | RESISTOR     | 2              |       |                                                 |                          |       |            |                  |
| 5                                                                                    | 10180306-239               | 10180306                     | RESISTOR     | 2              |       |                                                 |                          |       |            |                  |
| 6                                                                                    | 10181751-133               | 10181751                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 7                                                                                    | 10181751-166               | 10181751                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 8                                                                                    | 10180328-418               | 10180328                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 9                                                                                    | 10181752-283               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 10                                                                                   | 10181752-298               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 11                                                                                   | 10181752-306               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 12                                                                                   | 10181752-297               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 13                                                                                   | 10181752-289               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 14                                                                                   | 10181752-271               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 15                                                                                   | 10181752-310               | 10181752                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
| 16                                                                                   | 10181751-55                | 10181751                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-1                 | 10181751                     | RESISTOR     | 1              |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-2                 | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-3                 | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-4                 | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-5                 | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |
|                                                                                      | 10181751-6                 | 10181751                     | RESISTOR     |                |       |                                                 |                          |       |            |                  |

# 11.1.3 Output Preview

|                                                |  |  |  |  |  |  |  |  |  |                         |  |
|------------------------------------------------|--|--|--|--|--|--|--|--|--|-------------------------|--|
| U.S. ARMY MATERIEL COMMAND                     |  |  |  |  |  |  |  |  |  | PL 10677287             |  |
| U.S. ARMY MISSILE COMMAND                      |  |  |  |  |  |  |  |  |  | CODE IDENTIFICATION NO. |  |
| REDSTONE ARSENAL, ALABAMA                      |  |  |  |  |  |  |  |  |  | 18876                   |  |
| TITLE OSCILLATOR-VOLTAGE CONTROLLED-COHO-A3A13 |  |  |  |  |  |  |  |  |  | USANCOM 63343           |  |
| DATE 16 NOV 70                                 |  |  |  |  |  |  |  |  |  | REV 3 OF                |  |
| DRAWING OR SPECIFICATION NO.                   |  |  |  |  |  |  |  |  |  | EFFECTIVITY             |  |
| PART OR IDENTIFICATION NO.                     |  |  |  |  |  |  |  |  |  | FROM TO                 |  |
| NOMENCLATURE                                   |  |  |  |  |  |  |  |  |  | ZONE*                   |  |
| NOTES OR REMARKS                               |  |  |  |  |  |  |  |  |  |                         |  |
| RESISTOR                                       |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-207                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-208                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-209                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-210                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-211                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-212                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-213                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-214                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-215                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-261                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-212                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-213                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-214                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-215                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-261                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-357                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-147                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10180306-239                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-133                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-166                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10180328-418                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-283                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-298                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-306                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-297                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-289                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-271                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181752-310                                   |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-55                                    |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-1                                     |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-2                                     |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-3                                     |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-4                                     |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-5                                     |  |  |  |  |  |  |  |  |  |                         |  |
| 10181751-6                                     |  |  |  |  |  |  |  |  |  |                         |  |

#### 11.1.4 Output Ventura Publisher

**D002R004**

D002R005

---

## 12. Appendix E - Detailed CGM Analysis

### 12.1 File D001C006

#### 12.1.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer  
Copyright 1988-91 CGM Technology Software  
Execution Date: 12/18/92 Time: 08:36:24

Metafile Examined : \9290\c006

Pictures Examined : All

Elements Examined : All

Bytes Examined : All

===== Trace Report =====

Tracing not selected.

===== CGM Conformance Violation Report =====

Bulletin 20024: Element Class/ID: 5/34 Offset: 172 octets Element No. 19  
Warning; the definition of color index 0 differs from the  
explicitly defined Background Color.

Bulletin 20009: Element Class/ID: 4/1 Offset: 1962 octets Element No. 118  
Warning; POLYLINE with only one distinct vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 2016 octets Element No. 121  
Warning; POLYLINE with only one distinct vertex.

<<<< PART OF LOG REMOVED HERE >>>>

Bulletin 20009: Element Class/ID: 4/1 Offset: 64512 octets Element No. 3593  
Warning; POLYLINE with only one distinct vertex.

===== CALS CGM Profile (MIL-D-28003) Report =====

No profile discrepancies detected.

===== Conformance Summary Report =====

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer  
Copyright 1988-91 CGM Technology Software

---

Execution Date: 12/18/92      Time: 08:36:34

Name of CGM under test: \9290\c006.cgm  
Encoding                   : Binary

Pictures Examined       : All  
Elements Examined       : All  
Bytes       Examined       : All

BEGIN METAFILE string : "f18.cgm"  
METAFILE DESCRIPTION : "NORTHROP B2 ITDS GEF, MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 128; string contains: "Picture 1"

Conformance Summary : This file conforms to the CGM specification.  
                              This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

1 Pictures Tested  
3651 Elements Tested  
65542 Octets Tested

|                                            |        |      |
|--------------------------------------------|--------|------|
| 0 Illegal CGM Elements                     | 1000 - | 1999 |
| 0 Incorrect CGM Element Lengths            | 2000 - | 2999 |
| 0 CGM State Errors                         | 3000 - | 3499 |
| 0 Required CGM Elements Missing or Wrong   | 4000 - | 4499 |
| 0 CGM Parameter Values Out of Range        | 6000 - | 6499 |
| 0 CGM Structure Errors                     | 7000 - | 7499 |
| 0       ***       CGM Errors Found (total) | ***    |      |

|                                              |        |      |
|----------------------------------------------|--------|------|
| 0 Profile State Errors                       | 3500 - | 3999 |
| 0 Illegal Profile Elements                   | 4500 - | 4999 |
| 0 Profile Parameter Values Out of Range      | 6500 - | 6999 |
| 0 Profile Data Limits Exceeded               | 8500 - | 8999 |
| 0 Other Profile Constraints Violated         | 9500 - | 9999 |
| 0       *** Profile Violations Found (total) | ***    |      |

|                                 |         |       |
|---------------------------------|---------|-------|
| 103 Warnings (Advisory Remarks) | 20000 - | 20999 |
|---------------------------------|---------|-------|

2 distinct errors and warnings were reported.  
===== End of Conformance Report =====

## 12.1.2 validcgm LOG

Analysis for file c006.cgm using table table

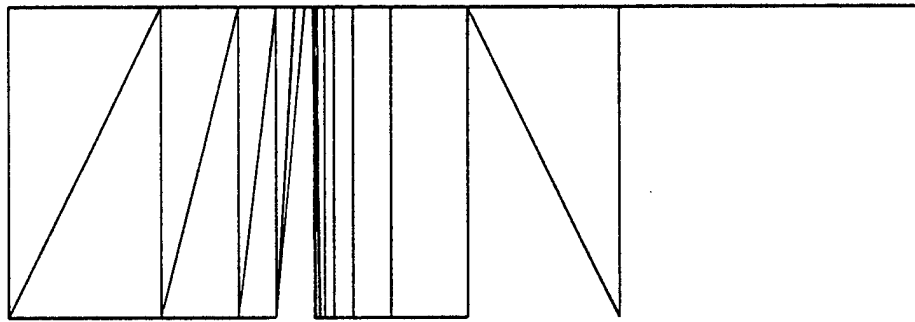
ERROR: illegal in this state (2), std B

ERROR: required precursor (0, 4) not yet seen

(13.1, 0) (3, 6, 2) Clip Indicator OFF

(0, 1) occurred 1 time  
(0, 2) occurred 1 time  
(0, 3) occurred 1 time  
(0, 4) occurred 1 time  
(0, 5) occurred 1 time  
(1, 1) occurred 1 time  
(1, 2) occurred 1 time  
(1, 3) occurred 1 time  
(1, 4) occurred 1 time  
(1, 5) occurred 1 time  
(1, 6) occurred 1 time  
(1, 7) occurred 1 time  
(1, 8) occurred 1 time  
(1, 9) occurred 1 time  
(1, 10) occurred 1 time  
(1, 11) occurred 1 time  
(1, 12) occurred 1 time  
(2, 2) occurred 1 time  
(2, 6) occurred 1 time  
(2, 7) occurred 1 time  
(3, 2) occurred 1 time  
(3, 6) occurred 1 time  
(3, 6) occurred illegally 1 time  
(4, 1) occurred 3627 times  
(5, 2) occurred 1 time  
(5, 3) occurred 1 time  
(5, 4) occurred 1 time  
(5, 34) occurred 1 time

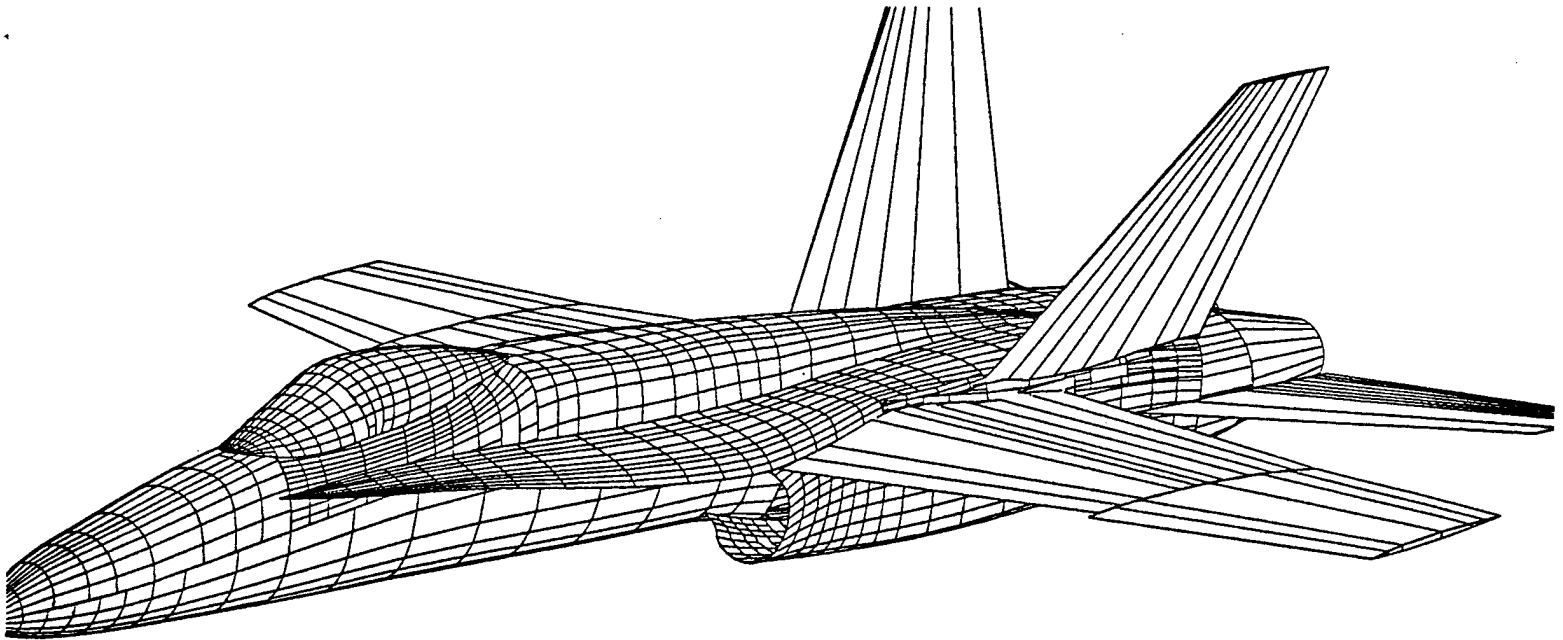
### 12.1.3 Output Harvard Graphics



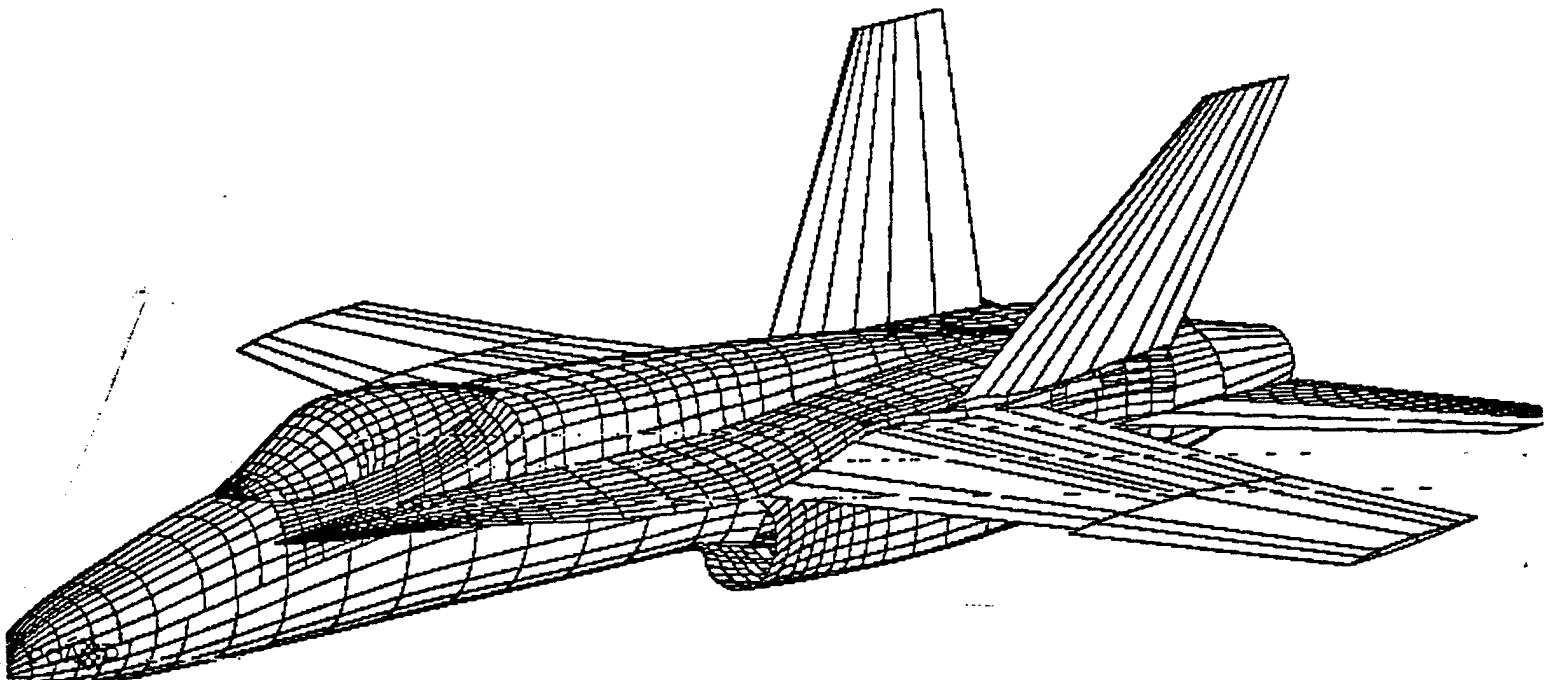
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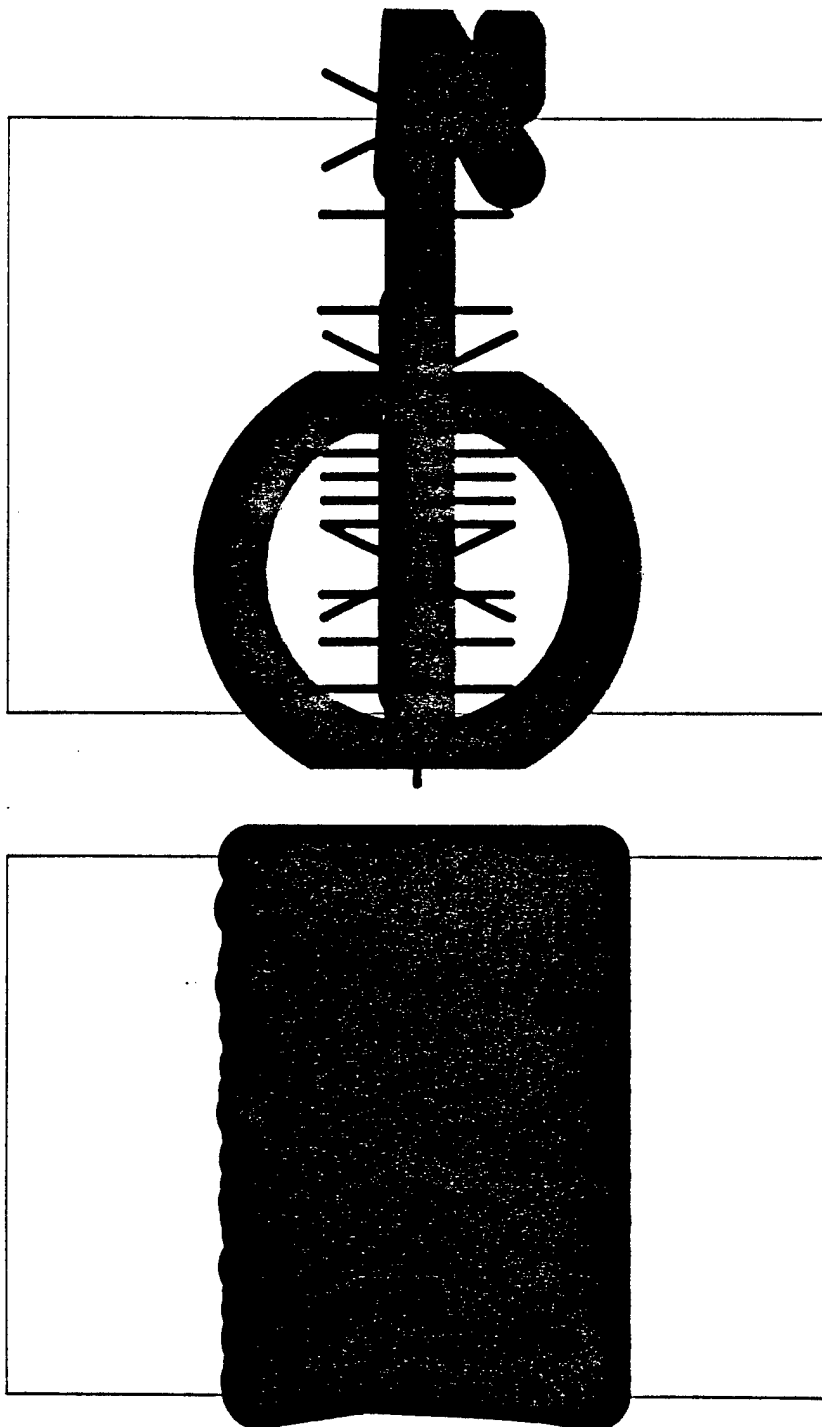
### 12.1.4 Output IslandDraw



### 12.1.5 Output cgm2draw/IslandDraw



### 12.1.6 Output Ventura Publisher



---

## 12.2 File D001C009

### 12.2.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer  
Copyright 1988-91 CGM Technology Software  
Execution Date: 12/18/92 Time: 08:37:00

Metafile Examined : \9290\c009

Pictures Examined : All  
Elements Examined : All  
Bytes Examined : All

===== Trace Report =====

Tracing not selected.

===== CGM Conformance Violation Report =====

Bulletin 20024: Element Class/ID: 5/34 Offset: 196 octets Element No. 20  
Warning; the definition of color index 0 differs from the  
explicitly defined Background Color.

Bulletin 20009: Element Class/ID: 4/1 Offset: 9398 octets Element No. 532  
Warning; POLYLINE with only one distinct vertex.

===== CALS CGM Profile (MIL-D-28003) Report =====

No profile discrepancies detected.

===== Conformance Summary Report =====

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer  
Copyright 1988-91 CGM Technology Software  
Execution Date: 12/18/92 Time: 08:37:07

Name of CGM under test: \9290\c009.cgm  
Encoding : Binary

Pictures Examined : All  
Elements Examined : All  
Bytes Examined : All

BEGIN METAFILE string : "sel.cgm"  
METAFILE DESCRIPTION : "NORTHROP B2 ITDS GEF, MIL-D-28003/BASIC-1"

---

Picture 1 starts at octet offset 152; string contains: "Picture 1"

Private values encountered in CGM

Conformance Summary : This file conforms to the CGM specification.  
This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

1 Pictures Tested  
1860 Elements Tested  
57502 Octets Tested

|                                          |        |      |
|------------------------------------------|--------|------|
| 0 Illegal CGM Elements                   | 1000 - | 1999 |
| 0 Incorrect CGM Element Lengths          | 2000 - | 2999 |
| 0 CGM State Errors                       | 3000 - | 3499 |
| 0 Required CGM Elements Missing or Wrong | 4000 - | 4499 |
| 0 CGM Parameter Values Out of Range      | 6000 - | 6499 |
| 0 CGM Structure Errors                   | 7000 - | 7499 |
| 0 *** CGM Errors Found (total)           | ***    |      |

|                                         |        |      |
|-----------------------------------------|--------|------|
| 0 Profile State Errors                  | 3500 - | 3999 |
| 0 Illegal Profile Elements              | 4500 - | 4999 |
| 0 Profile Parameter Values Out of Range | 6500 - | 6999 |
| 0 Profile Data Limits Exceeded          | 8500 - | 8999 |
| 0 Other Profile Constraints Violated    | 9500 - | 9999 |
| 0 *** Profile Violations Found (total)  | ***    |      |

|                               |         |       |
|-------------------------------|---------|-------|
| 2 Warnings (Advisory Remarks) | 20000 - | 20999 |
|-------------------------------|---------|-------|

2 distinct errors and warnings were reported.

===== End of Conformance Report =====

## 12.2.2 validcgm LOG

Analysis for file c009.cgm using table table  
ERROR: illegal in this state (2), std B  
ERROR: required precursor (0, 4) not yet seen  
(14.1, 0) (3, 6, 2) Clip Indicator OFF  
(0, 1) occurred 1 time  
(0, 2) occurred 1 time  
(0, 3) occurred 1 time  
(0, 4) occurred 1 time  
(0, 5) occurred 1 time

(1, 1) occurred 1 time  
(1, 2) occurred 1 time  
(1, 3) occurred 1 time  
(1, 4) occurred 1 time  
(1, 5) occurred 1 time  
(1, 6) occurred 1 time  
(1, 7) occurred 1 time  
(1, 8) occurred 1 time  
(1, 9) occurred 1 time  
(1, 10) occurred 1 time  
(1, 11) occurred 1 time  
(1, 12) occurred 1 time  
(1, 13) occurred 1 time  
(2, 2) occurred 1 time  
(2, 6) occurred 1 time  
(2, 7) occurred 1 time  
(3, 2) occurred 1 time  
(3, 6) occurred 1 time  
(3, 6) occurred illegally 1 time  
(4, 1) occurred 830 times  
(4, 4) occurred 27 times  
(4, 7) occurred 13 times  
(4, 15) occurred 122 times  
(4, 17) occurred 50 times  
(4, 18) occurred 407 times  
(5, 2) occurred 52 times  
(5, 3) occurred 52 times  
(5, 4) occurred 52 times  
(5, 10) occurred 1 time  
(5, 12) occurred 1 time  
(5, 13) occurred 1 time  
(5, 14) occurred 1 time  
(5, 15) occurred 4 times  
(5, 16) occurred 4 times  
(5, 17) occurred 1 time  
(5, 18) occurred 1 time  
(5, 22) occurred 45 times  
(5, 23) occurred 3 times  
(5, 27) occurred 42 times  
(5, 28) occurred 42 times  
(5, 29) occurred 42 times  
(5, 30) occurred 45 times  
(5, 34) occurred 1 time

19. **GENERAL THERAPEUTIC USES**

HG305  
D001 C009

### 12.2.4 Output Island Draw

